

Video Cassette Player **8**

EV-P2

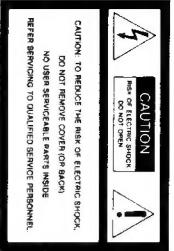
Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.



WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record
The model number is located at the front panel and the serial number on the front panel and the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.
Model No. EV-P2 Serial No. _____

This unit uses 9mm video format cassettes. It can play back in the SP mode (approximately 143 cm/second) and the LP mode (approximately 0.72 cm/second).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. If has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of FCC Rules, which are designed provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate the equipment with respect to the receiver.
Move the equipment away from the receiver.
Plug the equipment into a different outlet so that equipment and neither are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20520, Stock No. 00000000454.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 802.2 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system or the building, as close to the point of cable entry as practical.

Precautions**On safety**

- This unit operates only on 120 V AC, 60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it again.
- Before operating, if any burner, other than the one for the built-in oven, is wider than the other for the built-in oven, pull it out by the plug. Never pull the cord itself.
- One side of the plug is wider than the other for the purpose of safety sake. Do not pull the power cord only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Unplug the unit from the wall outlet if it is not going to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in a horizontal position. Do not install it in an inclined position.
- Keep the unit and cassette tapes away from equipment with strong magnets, as for example microwave ovens or large loudspeakers.
- Do not place any heavy object on the unit.
- Do not install the unit near an AM receiver, since noise may be heard when listening to AM programs.

On operation

- When the unit is not in use, turn the power off to conserve energy and to extend its life.
- Remove and store video cassettes after recording or playback.
- Store the cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.

On cleaning

- Clean the cabinet, panel and controls with a dry, soft cloth or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine, which might damage the finish.
- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit.

On repacking

- If you have any questions about this unit, contact your Sony service facility.

Table of Contents

Introduction

Introduction	4
Before You begin	5
Supplied accessories	6
Handling video cassettes	6
Getting to know the EV-P2	8
Front panel	8
Display window	8
Rear panel	9
Playing back a tape	10
Connection (1) — To a TV with video and audio inputs	10
Connection (2) — To a TV without video and audio inputs	11
Various functions	13
Use of the tape counter	14
Editing with a recorder	16
Antenna connection	18
First Check your TV	18
Example of connections	19
Setting the RF unit	25
Specifications	26
Troubleshooting	27

Overview of the EV-P2

The EV-P2 is a compact and light weight video cassette player which uses Berni format cassette.

With its feature of simple connection to a TV and easy operation, the EV-P2 is particularly well suited for the following applications:

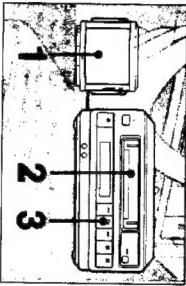
- To playback a tape recorded by your Berni video camera recorder.
- Connecting the EV-P2 to a TV, you can easily playback and enjoy the tape which you have recorded.
- For inter-office communication
- Such materials as company news or training materials created at the headquarters can be sent to its branch offices and those who receive them can easily playback the tape with the EV-P2.

How the Manual Works

- Controls and setting on the EV-P2 are shown in capital letters.
- The number in an illustration corresponds to the number in the text.

Note
When the TV has both L/R audio inputs, use the optional VAC-910A/920A cable for connection.

• Notes are enclosed in a box like this:



3
Press the ▶ PLAY button.

This manual is arranged to help you find the information you need for the operation of the EV-P2. Take a moment to check the content of this manual in the Table of Contents. Read the Antenna Connection and Setting the RF Unit sections first so that you can properly connect the EV-P2 to your TV before you begin.

Before You Begin...

Please go through this section before starting the operation of this unit.

Supplied Accessories

Please check that the following accessories are supplied with your unit:

- External antenna connector
- (300-ohm to 75-ohm matching transformer)



(1)

- 75-ohms coaxial cable with F-type connectors



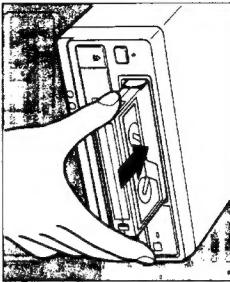
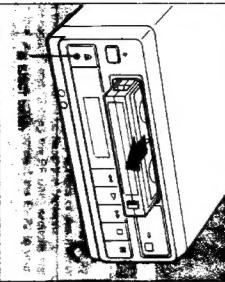
(1)

Handling Video Cassettes

Cassette insertion

Insert a cassette fully into the unit with the window facing upwards. If the AC power cord is connected to the wall outlet, the power will be automatically turned on.

The cassette indicator and SP/LP mode indicator lights in the display window.



Cassette ejection

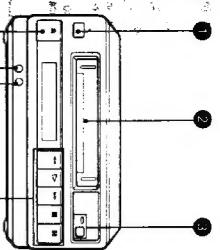
Press the \triangle EJECT button to unload the cassette. If the AC power cord is connected to the wall outlet, the cassette can be ejected even when the power of the unit is turned off.

Notes on handling the cassette

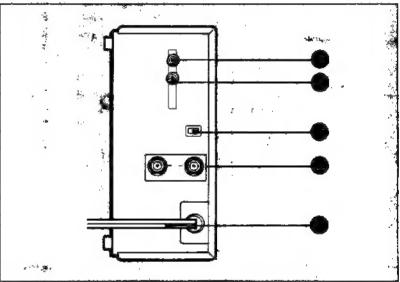
- Do not insert anything other than a cassette into the cassette compartment.
- Avoid using and storing the cassette in the location subject to dust, direct sunlight or near heat sources susceptible to vibration, and subject to strong magnetic field.
- Store cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.
- When the cassette will not be used for a long period of time, periodically rewind and advance the tape at a high speed, once or twice a year.
- Do not insert anything in the small holes on the rear of the cassette.

Getting to Know the EV-P2

Front Panel



Rear Panel



- Display Window**
- SP standard play/VP (long play) playback mode
 - Indicator
 - Cassette indicator
 - Tape counter

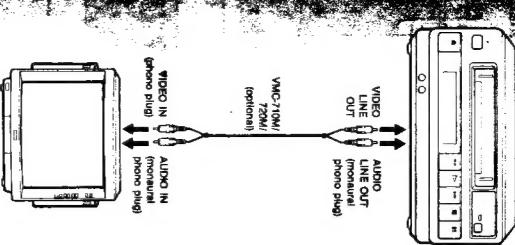
- Front Panel**
- POWER ON/OFF switch and Indicator**
Press to turn on the Power of the unit. The indicator lights when the power is supplied.
 - Cassette compartment**
Insert an 8 mm format video cassette tape.
 - EDIT button and Indicator**
Press to light the indicator and activate the EDIT mode when editing tapes. High quality picture can be obtained during editing by activating this mode. Normally need the indicator turned off.
 - EJECT button**
Press to unload the cassette.
 - COUNTER RESET button**
 - Tape transport button and Indicators**
 - PLAY
 - REV (Rewind)
 - FF (Fast forward)
 - STOP
 - PAUSE/STILL

- LINE OUT AUDIO jack (phone type)**
- LINE OUT VIDEO jack (phono type)**
- RF UNIT selector**
Set to 3C1 or 4C1 which is not assigned for a TV channel in your area referring to the "Setting the RF Unit" section.
- VHF/UHF INPUT connection (F type)**
- AC power cord**

Playing Back a Tape

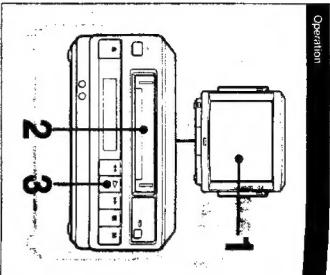
Connection (1) — To a TV with Video and Audio Inputs

Note
When the TV has been left audio inputs, use the optional VMC-91MS/2MS cable for connection.



Operation

- 1** Turn on the TV and set its input selector to "VTR".
 - 2** Insert the cassette fully into the cassette compartment. The power will automatically be turned on and the tape indicator lights in the display window.
 - 3** Press the ▶ PLAY button. The ▶ lamp will light and the playback picture will appear on the TV screen.
- To stop playback, press the ■ STOP button.
To rewind the tape, press the ▲ REWIND button.
To advance the tape in high speed, press the ▶ FF button.
To remove the cassette, press the □ EJECT button.

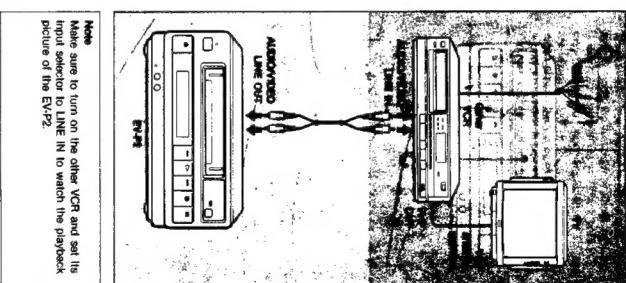
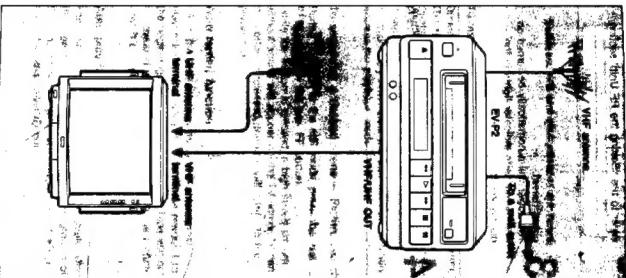


Basic Connection

The types of TV and antenna you have will determine how the antenna is to be connected. See the "Antenna Connections" section first and make the correct connections.

System Connection

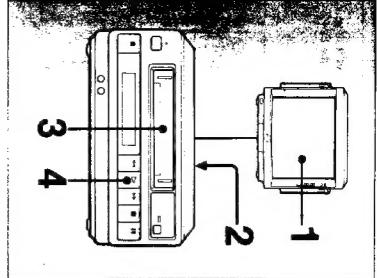
If you have already connected another VCR to your TV using the antenna terminal, connect the EV-P2 to your system as follows:



Note
Make sure to turn on the other VCR and set its input selector to LINE IN to watch the playback picture of the EV-P2.

Playing Back a Tape

Operation

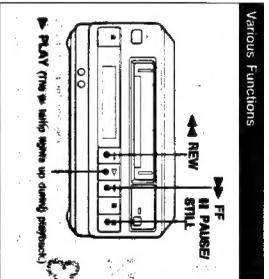


- 1** Turn on the TV.

- 2** Set the RF UNIT selector to either channel 3 or 4, whichever is not active in your area. Refer to the "Setting the RF Unit" section.

- 3** Insert the cassette tape into the cassette compartment. The power will automatically be turned on and the cassette indicator lights in the display window.

- 4** Press the ▶ PLAY button. The ▶ lamp lights and the playback picture will appear on the TV screen.



To view a still picture

During playback, press the ■ PAUSE/STILL button.

The ■ lamp lights and a still picture will be displayed. To resume normal playback, press the ▶ PLAY button or the ■ PAUSE/STILL button again. When the pause mode is held for more than approximately 7 minutes, the unit will automatically re-enter the playback mode.

To search for a desired scene — Picture search

During playback or the still mode, press the ■ REW button or the ■ FF button.

While the button is pressed, a high speed picture without sound will appear on the TV screen. When the button is released, the unit will return to the previous mode.

Auto rewind function

When the tape reaches the end in the normal playback mode, it will automatically be rewound to the beginning and stops. However, the tape will not be rewound when it reaches the end in the picture search or fast forward mode.

Auto play function

The unit can be set to playback automatically when the tape is completely rewound to the beginning of the tape. Press the ▶ PLAY button while holding down the ■ REWIND button.

Various Functions

Notes

Picture and sound during picture search modes

A few streaks will appear on the screen but these are not a failure of the unit. Sound will be muted in the search modes.

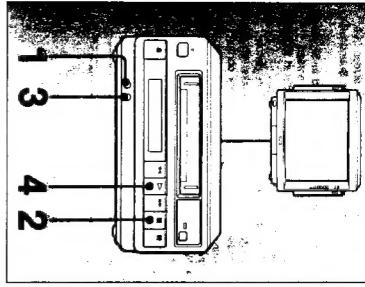
• When playing back tapes recorded in SP mode A wider streak will appear on the screen during picture search mode compared to tapes recorded in LP mode.

When viewing the picture in still or picture search mode, the picture may shake vertically or the color in the white and black portion may be reversed, depending upon the TV you are using.

• When playing back a blank tape A gray screen will appear on the TV screen. The tape counter will not function.

Use of the Tape Counter

To Recall the Scene Selected During Playback



- 1** During playback, press the COUNTER RESET button at your desired scene. The tape counter will display "00:00". (counter 0 point)

- 2** Press the ■ STOP button after playback is completed.

- 3** Press the TAPE RETURN button. At this point the tape counter must display more than 1 minute. Otherwise this function will not operate. The unit will start searching for the counter 0 point.

- 4** Press the ▶ PLAY button during the search mode. Playback starts from the scene selected in STEP 1.

If the ▶ PLAY button is not pressed, the unit will stop at the counter 0 point.

Accuracy of the tape counter

As the linear time counter equipped on the unit is not a clock counter, a certain amount of difference may occur between the time counter display and the actual playback time.

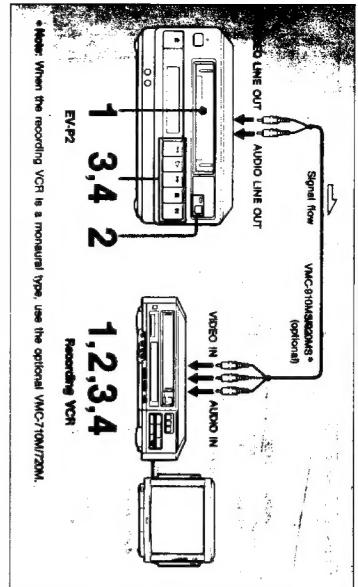
Editing with a Recorder

When editing is completed

Press the STOP button on both of the units.

To Edit a Tape by Connecting a Recorder

— Playing back with the EV/P2 and recording with another VCR



1
3,4
2

1,2,3,4

Recording VCR

- Note: When the recording VCR is a monaural type, use the optional VMC7TOM72M.

EV/P2

Recording VCR

VHS STOMAGENS (optional)

- 1** Insert a source tape.
The power will automatically be turned on.

Turn on the power of the unit and insert a cassette for recording.

Activate the EDIT mode if the unit has this function.

- 2** Press the EDIT button and light the indicator.
3 Search for the playback start point and enter the playback pause mode.
4 Search for the recording start point and enter the recording pause mode.

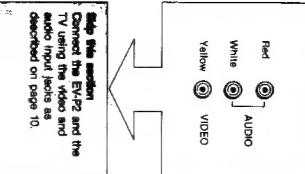
- Press the PAUSE/STILL button on both of the units simultaneously.
Press the PAUSE/STILL button on the EV/P2 a little before the recording VCR.

Antenna Connections

In order to view the playback picture on the TV screen, the EV-P2 and the TV must be connected properly. The proper connection between the two units varies depending upon the type of TV receiver and the antenna to be used.

First Check Your TV

If your TV has video and audio input jacks

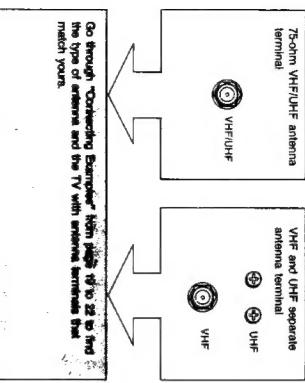
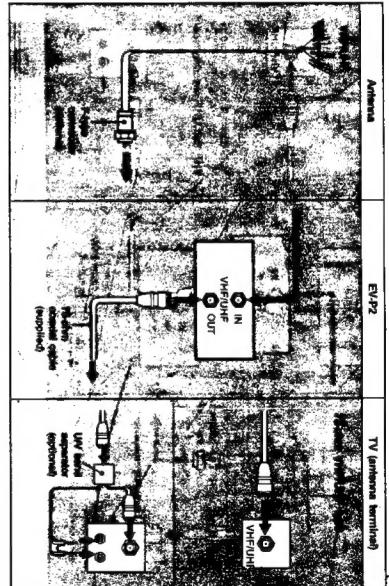


If your TV does not have video and audio input jacks
Check the antenna terminals on your TV.

If your TV is not equipped with video and audio inputs, the connection between the two TV must be made using the antenna. Before operating the unit, go through this section to make the correct connections.

Example of Connections

1 To connect a combination VHF/UHF antenna.



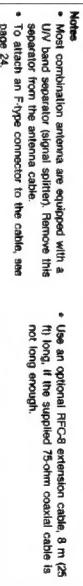
Before you begin...

- Turn off the power to the player and the TV.
- Disconnect the AC power cord of the player and the TV from the wall outlet.
- Do not connect the AC power cords until all the connections are completed.

Note
If your TV does not belong to any of the type above, please consult your Sony dealer.

Caution

Connections between the player VHF/UHF OUT connector and the antenna terminals of a TV receiver should be made only as shown in these instructions. Failure to do so may result in operation that violates the regulation of the Federal Communications Commission regarding the use and operation of TV receivers. Never connect the output of the player to an antenna or make simultaneous parallel antenna and player connections at the antenna terminals of your receiver.

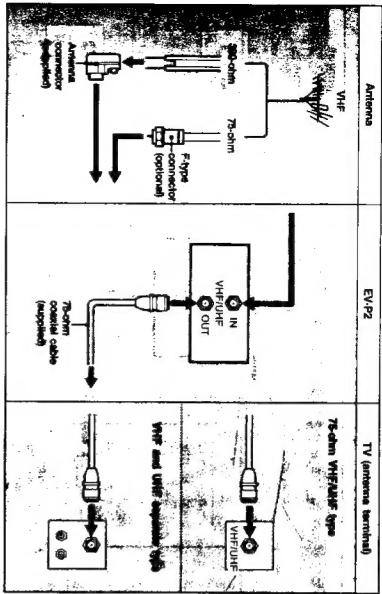


- Notes**
- Most combination antennas are equipped with a UHF band separator signal splitter. Remove this separator from the antenna cable before this page 24.
 - To attach an F-type connector to the cable, see

• Use an optional RF/CA extension cable, 8 m (26 ft. 5 in.) if the supplied 75cm coaxial cable is not long enough.

Antenna Connections

2 To connect a VHF antenna only

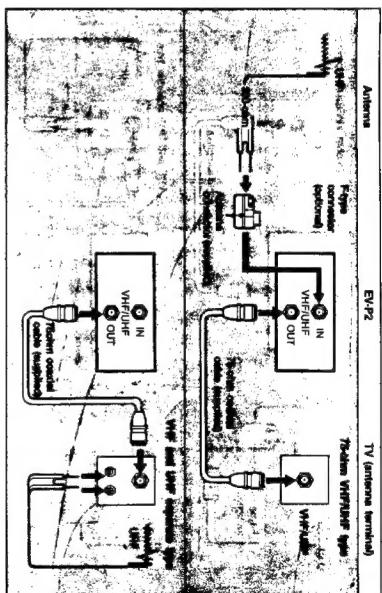


Notes

- To attach the F-type connector to the antenna cable, see page 24.

- To attach the supplied antenna connector to the antenna cable, see page 24.

3 To connect an UHF antenna only

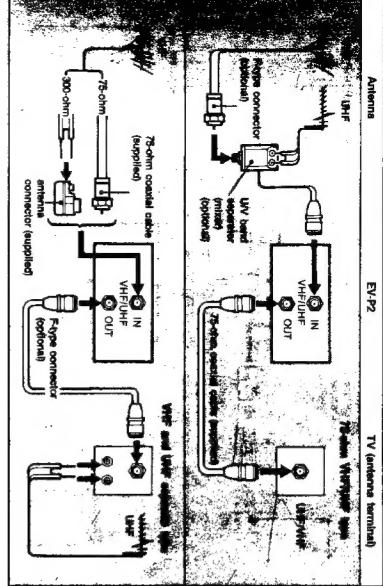


Notes

- To attach the supplied antenna connector to the antenna cable, see page 24.

4

To connect both the VHF and UHF antennas

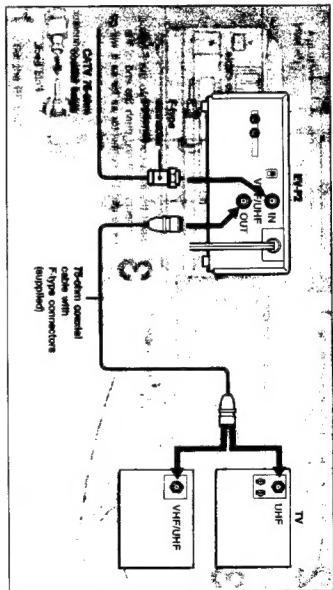


- Notes**
- To attach the supplied antenna connector to the antenna cable, see page 24.

- To attach an F-type connector to the antenna cable, see page 24.

OATV cable connections

Although an example of a connection is given below, we recommend that you consult your cable company to make sure that the cable is properly connected.



Antenna Connections

הנִזְקָנָה בְּבֵית־הַמִּלְחָמָה

- 2** Fit the 300-ohm twin lead cable under the screws on antenna connector.

CONNECTOR

- ### **3** Tighten the screws again.

- 3** Insert the inner conductor into the F-type connector shaft and push the end of the cable into the connector as far as it will go.

- 4** Slide the crimping ring over this assembly.

Then pinch the crimping ring with pliers to hold the connection in place.

3 mm
($\frac{1}{8}$ inch)

- 5** Insert the F-Type connector into the VHF/UHF IN on the player.

Insert the F-type connector into the VHF/UHF IN on the player.

A small icon of a vertical antenna with a circular connector at the bottom, labeled "VHF/UHF" below it.

To view the dipper RE signal, set the RE UNIT

To get the proper RF signal, set the RF UNIT

to channel 3, and vice versa

- 1** Set the RF UNIT located at the rear to 3 CH or 4 CH, whichever is not active in your area.

2

3

4,5

1 3 CH

11 May 1999

- 3
Press ▶ PLAY.

- 4

- 5** Set the TV receiver to either VHF channel 3 or 4 to agree with the RF UNIT setting you made in step 1. The picture recorded on the tape will appear on the TV screen. If no picture appears on the screen, or if the display is not clear, fine-tune the channel on the TV.

or if the display is not clear, fine-tune the channel on the TV.

- For details about the TV channel adjustment, see the instruction of the TV receiver.

Specifications

System

Video playback system

FM color under two-head helical scanning
NTSC color, EIA standards

Audio playback system

Rotary head, FM system
NTSC color, EIA standards

Usable cassette

8 mm format video cassettes

Tape speed

SP mode: Approx. 4.3 mm/sec.

LP mode

Approx. 1.2 mm/sec.

Playback time

SP mode: 2 hours with the Sony

LP mode

PR-120MF video cassette
PR mode: 4 hours with the Sony

Fast forward/rewind time

Approx. 4 min with the Sony

PR-90MF video cassette

Inputs and Outputs

Video output

VIDEO OUT: phone jack
1Vp-p, 75 ohms
unbalanced, sync negative

Audio output

AUDIO OUT: phone jack

VHF/UHF input

F-type connector, 75 ohms,
unbalanced

VHF/UHF output

F-type connector, 75 ohms,
unbalanced, VHF channel 3 or 4
selectable

General

Power requirements

AC 120 V ± 10%, 60 Hz

Power consumption

16 W

Operating temperature

5°C to 40°C (41°F to 104°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)

Dimensions

Approx. 178 × 38 × 255 mm
(7 1/8 × 1 1/2 × 10 1/8 inches)
(W/H/D)

Weight

Including the protecting parts and
controls
Approx. 2.4 kg (5 lb 5 oz)

Supplied Accessories

External antenna connector (1)

75-ohm coaxial cable with F-type connectors, 2 m (1)

Design and specifications are subject to change without notice.

Troubleshooting

POWER cannot be turned on.

Power cord is not connected.
The video channel on the TV receiver is not
correctly selected.

The video selector is not set to the proper

- The video heads may be contaminated.
Clean the heads using a Sony VR-20CI video
head cleaning cassette. For details on cleaning,
refer to the instructions for finished VR-20CI cleaning
cassette. If the VR-20CI cleaning
cassette is not available in your area, have the
heads cleaned at the nearest Sony service
facility.

Playback cannot be performed even when the ▶ PLAY button is pressed.

- The tape stops during fast forward or rewind
modes.

The tape counter display was more than 1 minute.

- Search using the TAPE RETURN button is activated.
The TAPE RETURN button was pressed before the
be performed.